

# PATENT ABSTRACTS OF JAPAN

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(71)Applicant : SUMITOMO ELECTRIC IND LTD

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(72)Inventor : HIRATA YOSHIHIRO  
HAGA TAKESHI

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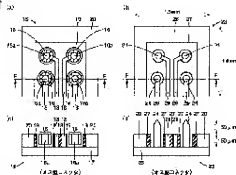
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(54) MICROCONNECTOR AND ITS MANUFACTURE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a microconnector which has a sufficient strength for practical application, allows designing of the structures of an electrode member and a guide member independently to a certain degree, and allows simple connection operation.

SOLUTION: A wiring layer 26 is formed on the base board 25 of a male connector 23, and a connector electrode is protruding from the layer 26. Pin electrodes 24 are arranged two-dimensionally and surrounded by a spacer 27. A wiring layer 18 is formed on the base board 17 of a female connector 15, and a connector electrode 16 is formed at one end of the layer 18. The electrode 16 is equipped with a hole 16a receiving pin electrode 24, and their arrangement corresponds to the pin electrodes 24. The electrode 16 has a spring function and is surrounded by a spacer 19. Electric connection of the male connector 23 to



the female 15 is made by laying the base boards 25 and 17 one over the other in such a way that their electrode surfaces are facing one another. The positional conformity of the pins 24 with the electrode 16 is made naturally through mutual attraction of magnetic layers 28 and 20.